



Sunday, 7 July

15:30–16:30..... Registration
18:30–19:30..... Icebreaker

Monday, 8 July

07:30–08:30..... Onsite Registration
08:30–09:00..... Hotel Safety Briefing
Welcome by Committee Chair

► Session 1 Petrophysics

Session Chairmen: Peter Duncan, MicroSeismic, Inc.

09:00–09:40..... **Keynote: Capture, Exploration and Development of a Gas Play: Horn River Basin, Canada** *Rene Jonk, ExxonMobil Upstream Research Company*
09:40–10:20..... **Rock Physics of Unconventional Shales and Its Implicaitons** *Lev Vernik, Marathon Oil*
10:20–10:30..... Break
10:30–11:00..... **Creating Model of Shale Gas Formation from Well Logging and Laboratory Data** *Jadwiga Jaryzna and Tomasz Zorski, AGH University of Science and Technology*
11:00–11:30..... **Quantitative Mineralogy, Chemical Analysis, and Mineral Surface Properties in Formation Evaluation** *Jan Srodon and Arkadiusz Derkowski, Polish Academy of Sciences*
11:30–12:00..... Discussion
12:00–13:30..... Lunch Break

► Session 2 Rock Physics

Session Chairmen: Jelena Tomic, ExxonMobil Upstream Research Company

13:30–14:10..... **Keynote: Assessing the Structure and Multiscale Heterogeneity of Shales** *Andy Aplin, Durham University*
14:10–14:40..... **Brittleness, Stress Fluctuations and Induced Seismicity: Does Induced Seismicity Depend on Elastic Properties of Rocks?** *Cornelius Langenbruch and Serge A. Shapiro Freie Universität Berlin, Germany*
14:40–14:50..... Break
14:50–15:30 **Poster Session**
— **The Effect of Pore Gas Content on the Behavior of Elastic Parameters in Barnett Shale** *Adem Elbenghazi, Waha Oil Co.*
— **Integrated Geophysical-Geological Recognition of the Lower Paleozoic Succession in SE Poland and W Ukraine** *Piotr Krzywiec, Institute of Geological Sciences, Polish Academy of Sciences*
— **Unconventional Reservoir Characterization-The Need of Convention Workflow Modification** *Halina Jedrzejowska and Krzysztof Scwizdzał, Oil and Gas Institute*
15:30–16:30..... **Panel Discussion**

Tuesday, 9 July

► Session 3 Reservoir Performance and Evaluation

Session Chairmen: Nancy House, Chevron

08:30–09:10..... **Seismic and Aseismic Fault Slip During Multi-Stage Hydraulic Fracturing** *Mark Zoback, Stanford University*
09:10–09:40..... **Tomographic Fracture Imaging-A Look into the Permeability Structures of Reservoirs** *Al Lacazette, Global Microseismic Services*
09:40–10:10..... **Using Microseismic Monitoring to Characterize Stimulated Fractures** *James Verdon, University of Bristol*
10:10–10:20..... Break
10:20–10:50..... **An Extended Multi-physics Approach Provides Improved Imaging of the Ordovician-Silurian Shales in Poland** *Piotr Krzywiec, Institute of Geological Sciences, Polish Academy of Sciences*
10:50–11:20..... **Reducing Uncertanties of Microseismic Imaging for Optimized Hydraulic Fracturing** *Alexandre Droujinine, Shell*
11:20–11:50..... Discussion
12:00–13:30..... Lunch Break

► Session 4 Where Geophysics Makes a Difference

Session Chairmen: Leo Eisner, Academy of Sciences of the Czech Republic

13:30–14:10..... **Keynote: Seismic Attribute Expression of the Mississippi Lime** *Kurt Marfurt, University of Oklahoma*
14:10–14:40..... **Azimuthal Anisotropy in Microseismic Monitoring** *Vladimir Grechka, Marathon Oil Company*
14:40–15:10..... **The Anisotropic Seismic Properties of Sedimentary Rocks** *Mike Kendall, University of Bristol*
15:10–15:20..... Break
15:20–15:50..... **Identification of Seismic Signatures of Unconventional Hydrocarbon Reservoirs with Full Azimuth Seismic** *Michal Podolak, Geofizyka Torun S.A.*
15:50–16:30..... **Poster Session**
— **Structural Depth to Basement Study of the Central Poland Shale Gas Province using Gravity and Magnetic Data** *Mateusz Mikolajczak, Polish Academy of Sciences*
— **Seismic Exploration Methods on Scattered Waves and Microseismic Monitoring in Problems of Optimum Shale Oil and Gas Development** *Gennady Erokhin, Immanuel Kant Baltic Federal University*
— **Spatial Coherence of Signals from Double-Couple Microseismic Events Recorded by Surface Network** *Ilya Dricker, Earth Imaging Inc.*
— **Microseismic - Beyond Dots in the Box** *Alfred Lacazette, Marta Muli ska, and Leszek Bednarski, Global Geophysical Services*
16:30–17:00..... Discussion

Wednesday, 10 July

► Session 5 Monitoring Techniques

Session Chairmen: Vladimir Grechka, Marathon Oil Company

08:30–09:10..... **Keynote: Frac Monitoring Methods Today and Tomorrow** *Peter Duncan, MicroSeismic, Inc.*
09:10–09:40..... **Integrating Microseismic Imaging with Geomechanical Modeling** *Will Pettitt, Itasca Consulting Group Inc.*
09:40–10:10..... **New Model for Microseismicity Injection with Hydraulic Fractures in Shales** *Leo Eisner, Academy of Sciences of the Czech Republic*
10:10–10:20..... Break
10:20–10:50..... **Just-in-time Well Trajectory Imaging using Borehole Seismic to Guide the Horizontal Drill Bit: Haynesville Case Study** *Jeff Reagan, Max Solutions, LLC*
10:50–11:50..... **Panel Discussion**
12:00–13:30..... Lunch Break

► Session 6 Public Perception

Session Chairmen: Mike Kendall, University of Bristol

13:30–14:10..... **Keynote: Developing Unconventional Gas from Early Evaluation to Commercial Development** *Mike Gatens, Unconventional Gas Resources, Canada*
14:10–14:40..... **3D Seismic in the Marcellus: Objectives and Challenges to Acquiring Useful Data** *Nancy House, Chevron*
14:40–15:10..... **Polish Law Regulations Related to Shale Gas Prospecting and Exploitation** *Piotr Such, Oil and Gas Institute*
15:10–15:20 Break
15:20–15:50..... **Unconventional Resources: Opportunities and Perception** *Jelena Tomic, ExxonMobil Upstream Research Company*
15:50–16:20..... **Poster Session**
— **Application of Multiple Seismic Attributes in Formulating the Appraisal Strategy of Deep Unconventional Resource Play: Kuwait Case Study** *Vijaya Kumar Kidambi, Kuwait Oil Company*
16:20–16:50..... Discussion

Thursday, 11 July

► Session 7 Unconventional Non-Shale Energy Resources and Integrated Geophysics

Session Chairmen: Martin Terrell, ExxonMobil

08:30–09:10..... **Keynote: From Hazard Assessment to Hazard Management: The Case of Mining-induced Seismicity** *Stanislav Lasocki, Institute of Geophysics, Polish Academy of Sciences*
09:10–09:40..... **Overview of the Soultz-sous-Forets EGS Power Plant with a Special Focus on Induced Seismicity** *Nicolas Cuenot, GEIE Exploitation Miniere de la Chaleur*
09:40–10:10..... **Integrated Geophysics Applied to Southwestern Pennsylvania** *Bill Harbert, University of Pittsburgh*
10:10–10:20 Break
10:20–10:50..... **The Value of Integrating Geophysical Quality Attributed to Passive Seismic Monitoring** *Les Bennet and Joel Le Calvez, Schlumberger*
10:50–11:50..... **Panel Discussion**
12:00–13:00..... Lunch

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